

Appendix G

Summary of Nonradiological Monitoring Data



Shipping Water Samples to Off-site Laboratories for Analysis

Table G - 1
West Valley Demonstration Project State Pollutant Discharge Elimination
System (SPDES) Sampling Program

Outfall	Parameter	Daily Maximum Limit*	Sample Frequency
001 (Process and Storm Wastewater)	Flow	Monitor	2 per discharge
	Aluminum, total	14.0 mg/L	2 per discharge
	Ammonia (NH ₃)	Monitor	2 per discharge
	Arsenic, dissolved	0.15 mg/L	2 per discharge
	BOD ₅	10.0 mg/L	2 per discharge
	Iron, total	Monitor	2 per discharge
	Zinc, total recoverable	0.48 mg/L	2 per discharge
	Suspended solids	45.0 mg/L	2 per discharge
	Cyanide, amenable to chlorination	0.022 mg/L	2 per discharge
	Settleable solids	0.30 mL/L	2 per discharge
	pH (range)	6.5 — 8.5	2 per discharge
	Oil and grease	15.0 mg/L	2 per discharge
	Sulfate (as S)	Monitor	2 per discharge
	Sulfide, dissolved	0.4 mg/L	2 per discharge
	Manganese, total	2.0 mg/L	2 per discharge
	Nitrate (as N)	Monitor	2 per discharge
	Nitrite (as N)	0.1 mg/L	2 per discharge
	Chromium, total recoverable	0.3 mg/L	2 per discharge
	Chromium, hexavalent, total recoverable	0.011 mg/L	2 per discharge
	Cadmium, total recoverable	0.002 mg/L	2 per discharge
	Copper, total recoverable	0.030 mg/L	2 per discharge
	Copper, dissolved	Monitor	2 per discharge
	Lead, total recoverable	0.006 mg/L	2 per discharge
	Nickel, total recoverable	0.14 mg/L	2 per discharge
	Dichlorodifluoromethane	0.01 mg/L	2 per discharge
	Trichlorofluoromethane	0.01 mg/L	2 per discharge
	3,3-dichlorobenzidine	0.01 mg/L	2 per discharge
	Tributyl phosphate	32 mg/L	2 per discharge
	Vanadium, total recoverable	0.014 mg/L	2 per discharge
	Cobalt, total recoverable	0.005 mg/L	2 per discharge
	Selenium, total recoverable	0.004 mg/L	2 per discharge
	Hexachlorobenzene	0.02 mg/L	2 per discharge
	Alpha - BHC	0.00001 mg/L	2 per discharge
	Heptachlor	0.00001 mg/L	2 per discharge
	Surfactant (as LAS)	0.4 mg/L	2 per discharge
	Xylene	0.05 mg/L	2 per discharge
	2-butanone	0.5 mg/L	2 per discharge
	Total Dissolved Solids	Monitor	2 per discharge
	Barium	0.5 mg/L	annual
	Antimony	1.0 mg/L	annual
	Chloroform	0.3 mg/L	annual
Bis(2-ethylhexyl)phthalate	1.6 mg/L	semiannual	
4-Dodecene	0.6 mg/L	semiannual	
Titanium	0.65 mg/L	semiannual	

* Daily average limitations are also identified in the permit but require only monitoring for all parameters except total aluminum (daily average limit - 7.0 mg/L); suspended solids (daily average limit - 30.0 mg/L); BOD₅ for the sum of outfalls 001, 007, and 008 (daily average limit - 5.0 mg/L); and ammonia for the sum of outfalls 001 and 007 (daily average limit - 1.49 mg/L).

Table G - 1 (concluded)
West Valley Demonstration Project State Pollutant Discharge Elimination System (SPDES) Sampling Program

Outfall	Parameter	Daily Maximum Limit*	Sample Frequency
007 (Sanitary and Utility Wastewater)	Flow	Monitor	3 per month
	Ammonia (as NH ₃)	Monitor	3 per month
	BOD ₅	10 mg/L	3 per month
	Iron, total	Monitor	3 per month
	Solids, suspended	45.0 mg/L	3 per month
	Solids, settleable	0.3 mL/L	weekly
	pH (range)	6.5 — 8.5	weekly
	Nitrite (as N)	0.1 mg/L	3 per month
	Oil and grease	15 mg/L	3 per month
	Chlorine, total residual	0.1 mg/L	weekly
	Chloroform	0.20 mg/L	annual
	008 (French Drain Wastewater)	Flow	Monitor
BOD ₅		5.0 mg/L	3 per month
Iron, total		Monitor	3 per month
pH (range)		6.5 — 8.5	3 per month
Cadmium, total recoverable		0.002 mg/L	3 per month
Lead, total recoverable		0.006 mg/L	3 per month
Silver, total		0.008 mg/L	annual
Zinc, total		0.100 mg/L	annual
Arsenic		0.17 mg/L	annual
Chromium		0.13 mg/L	annual
Sum of Outfalls 001, 007, and 008		Iron, total	0.30 mg/L
	BOD ₅	Monitor	3 per month
Sum of Outfalls 001 and 007	Ammonia (as NH ₃)	2.1 mg/L	3 per month
Pseudo-monitoring point (116)	Solids, total dissolved	500 mg/L	2 per discharge

* Daily average limitations are also identified in the permit but require only monitoring for all parameters except total aluminum (daily average limit - 7.0 mg/L); suspended solids (daily average limit - 30.0 mg/L); BOD₅ for the sum of outfalls 001, 007, and 008 (daily average limit - 5.0 mg/L); and ammonia for the sum of outfalls 001 and 007 (daily average limit - 1.49 mg/L).

Table G - 2
West Valley Demonstration Project 1999 SPDES Noncompliance Episodes

Date	Outfall	Parameters	Limit	Value	Comments
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There were no episodes of noncompliance in 1999.

Table G-3A
1999 SPDES Results for Outfall 001 (WNSP001)
Water Quality

	Ammonia (as NH₃) (mg/L)		BOD₅ (mg/L)		Cyanide (amenable to chlorination) (mg/L)		Discharge Rate (MGD)	
Permit limit	Monitor		10.0 mg/L daily maximum		0.022 mg/L daily maximum		Monitor	
Month	Avg	Max	Avg	Max	Avg	Max	Avg	Max
January	NA	NA	NA	NA	NA	NA	NA	NA
February	0.14	0.21	< 2.0	< 2.0	< 0.01	< 0.01	0.384	0.469
March	NA	NA	NA	NA	NA	NA	NA	NA
April	< 0.05	< 0.05	< 2.0	< 2.0	< 0.01	< 0.01	0.395	0.495
May	NA	NA	NA	NA	NA	NA	NA	NA
June	NA	NA	NA	NA	NA	NA	NA	NA
July	0.31	0.35	< 2.0	< 2.0	< 0.01	< 0.01	0.221	0.318
August	NA	NA	NA	NA	NA	NA	NA	NA
September	NA	NA	NA	NA	NA	NA	NA	NA
October	NA	NA	NA	NA	NA	NA	NA	NA
November	0.22	0.27	< 2.4	2.8	< 0.01	< 0.01	0.384	0.531
December	NA	NA	NA	NA	NA	NA	NA	NA

	Nitrate (as N) (mg/L)		Nitrite (as N) (mg/L)		Oil & Grease (mg/L)	
Permit limit	Monitor		0.1 mg/L daily maximum		15.0 mg/L daily maximum	
Month	Avg	Max	Avg	Max	Avg	Max
January	NA	NA	NA	NA	NA	NA
February	2.60	2.70	0.10	0.10	< 5.0	< 5.0
March	NA	NA	NA	NA	NA	NA
April	2.60	2.70	< 0.06	0.06	< 5.0	< 5.0
May	NA	NA	NA	NA	NA	NA
June	NA	NA	NA	NA	NA	NA
July	< 0.05	< 0.05	< 0.05	< 0.05	< 5.0	< 5.0
August	NA	NA	NA	NA	NA	NA
September	NA	NA	NA	NA	NA	NA
October	NA	NA	NA	NA	NA	NA
November	0.68	0.72	0.05	0.05	6.5	7.9
December	NA	NA	NA	NA	NA	NA

NA = Not applicable. No discharge this month.
 No results exceeded the permit limits.

Table G-3A (concluded)
1999 SPDES Results for Outfall 001 (WNSP001)
Water Quality

	pH (standard units)		Solids Settleable (mL/L)		Solids Total Dissolved (mg/L)		Solids Total Suspended (mg/L)	
Permit limit	6.5 to 8.5		0.30 mL/L daily maximum		Monitor		45.0 mg/L daily maximum; 30.0 daily average	
Month	Min	Max	Avg	Max	Avg	Max	Avg	Max
January	NA	NA	NA	NA	NA	NA	NA	NA
February	7.8	7.8	< 0.1	< 0.1	562	566	5.0	5.0
March	NA	NA	NA	NA	NA	NA	NA	NA
April	7.7	8.0	< 0.1	< 0.1	624	640	< 3.0	4.0
May	NA	NA	NA	NA	NA	NA	NA	NA
June	NA	NA	NA	NA	NA	NA	NA	NA
July	7.7	7.8	< 0.1	< 0.1	934	940	< 2.0	2.0
August	NA	NA	NA	NA	NA	NA	NA	NA
September	NA	NA	NA	NA	NA	NA	NA	NA
October	NA	NA	NA	NA	NA	NA	NA	NA
November	7.6	8.0	< 0.1	< 0.1	765	774	10.6	14.0
December	NA	NA	NA	NA	NA	NA	NA	NA

	Sulfate (as S) (mg/L)		Sulfide Dissolved (mg/L)		Surfactants (as LAS) (mg/L)	
Permit limit	Monitor		0.4 mg/L daily maximum		0.4 mg/L daily maximum	
Month	Avg	Max	Avg	Max	Avg	Max
January	NA	NA	NA	NA	NA	NA
February	40	40	< 0.2	< 0.2	< 0.1	< 0.1
March	NA	NA	NA	NA	NA	NA
April	60	67	< 0.3	0.3	< 0.1	< 0.1
May	NA	NA	NA	NA	NA	NA
June	NA	NA	NA	NA	NA	NA
July	87	87	< 0.2	< 0.2	< 0.1	< 0.1
August	NA	NA	NA	NA	NA	NA
September	NA	NA	NA	NA	NA	NA
October	NA	NA	NA	NA	NA	NA
November	70	80	< 0.2	< 0.2	< 0.03	0.04
December	NA	NA	NA	NA	NA	NA

NA = Not applicable. No discharge this month.
 No results exceeded the permit limits.

Table G-3B
1999 SPDES Results for Outfall 001 (WNSP001)
Metals

	Aluminum Total (mg/L)		Arsenic Dissolved (mg/L)		Cadmium Total Recoverable (mg/L)		Cobalt Total Recoverable (mg/L)	
Permit limit	14 mg/L daily maximum 7.0 mg/L daily average		0.15 mg/L daily maximum		0.002 mg/L daily maximum		0.005 mg/L daily maximum	
Month	Avg	Max	Avg	Max	Avg	Max	Avg	Max
<i>January</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>February</i>	0.555	0.570	< 0.003	0.0037	< 0.001	< 0.001	< 0.004	< 0.004
<i>March</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>April</i>	0.405	0.490	< 0.003	< 0.003	< 0.001	< 0.001	< 0.004	< 0.004
<i>May</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>June</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>July</i>	0.535	0.620	< 0.003	< 0.003	< 0.001	< 0.001	< 0.004	< 0.004
<i>August</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>September</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>October</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>November</i>	0.220	0.240	< 0.003	< 0.003	< 0.001	< 0.001	< 0.004	< 0.004
<i>December</i>	NA	NA	NA	NA	NA	NA	NA	NA

	Chromium Total Recoverable (mg/L)		Chromium VI Total Recoverable (mg/L)		Copper Dissolved (mg/L)	
Permit limit	0.3 mg/L daily maximum		0.011 mg/L daily maximum		Monitor	
Month	Avg	Max	Avg	Max	Avg	Max
<i>January</i>	NA	NA	NA	NA	NA	NA
<i>February</i>	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
<i>March</i>	NA	NA	NA	NA	NA	NA
<i>April</i>	< 0.01	< 0.01	< 0.01	< 0.01	< 0.014	0.017
<i>May</i>	NA	NA	NA	NA	NA	NA
<i>June</i>	NA	NA	NA	NA	NA	NA
<i>July</i>	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
<i>August</i>	NA	NA	NA	NA	NA	NA
<i>September</i>	NA	NA	NA	NA	NA	NA
<i>October</i>	NA	NA	NA	NA	NA	NA
<i>November</i>	< 0.01	< 0.01	< 0.01	< 0.01	< 0.007	< 0.01
<i>December</i>	NA	NA	NA	NA	NA	NA

NA = Not applicable. No discharge this month.
 No results exceeded the permit limits.

Table G-3B (concluded)
1999 SPDES Results for Outfall 001 (WNSP001)
Metals

	Copper Total Recoverable (mg/L)		Iron Total (mg/L)		Lead Total Recoverable (mg/L)		Manganese Total (mg/L)	
Permit limit	0.030 mg/L daily maximum		Monitor		0.006 mg/L daily maximum		2.0 mg/L daily maximum	
Month	Avg	Max	Avg	Max	Avg	Max	Avg	Max
<i>January</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>February</i>	< 0.010	< 0.010	0.350	0.360	< 0.002	< 0.002	0.009	0.010
<i>March</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>April</i>	< 0.012	0.013	0.205	0.250	< 0.002	0.002	0.009	0.009
<i>May</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>June</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>July</i>	< 0.010	< 0.010	0.275	0.340	< 0.002	< 0.002	0.050	0.065
<i>August</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>September</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>October</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>November</i>	0.019	0.025	0.206	0.241	0.004	0.004	0.019	0.022
<i>December</i>	NA	NA	NA	NA	NA	NA	NA	NA

	Nickel Total Recoverable (mg/L)		Selenium Total Recoverable (mg/L)		Vanadium Total Recoverable (mg/L)		Zinc Total Recoverable (mg/L)	
Permit limit	0.14 mg/L daily maximum		0.004 mg/L daily maximum		0.014 mg/L daily maximum		0.48 mg/L daily maximum	
Month	Avg	Max	Avg	Max	Avg	Max	Avg	Max
<i>January</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>February</i>	< 0.040	< 0.040	< 0.003	< 0.003	< 0.010	< 0.010	< 0.010	< 0.010
<i>March</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>April</i>	< 0.040	< 0.040	< 0.003	< 0.003	< 0.010	< 0.010	0.012	0.013
<i>May</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>June</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>July</i>	< 0.040	< 0.040	< 0.003	< 0.003	< 0.010	< 0.010	< 0.010	0.011
<i>August</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>September</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>October</i>	NA	NA	NA	NA	NA	NA	NA	NA
<i>November</i>	< 0.056	0.071	< 0.002	< 0.002	< 0.010	< 0.010	< 0.016	0.021
<i>December</i>	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not applicable. No discharge this month.
 No results exceeded the permit limits.

Table G-3C
1999 SPDES Results for Outfall 001 (WNSP001)
Organics

VOLATILES

	2-Butanone (mg/L)		Dichlorodifluoromethane (mg/L)		Trichlorofluoromethane (mg/L)		Xylene (mg/L)	
Permit limit	0.5 mg/L daily maximum		0.01 mg/L daily maximum		0.01 mg/L daily maximum		0.05 mg/L daily maximum	
Month	Avg	Max	Avg	Max	Avg	Max	Avg	Max
January	NA	NA	NA	NA	NA	NA	NA	NA
February	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
March	NA	NA	NA	NA	NA	NA	NA	NA
April	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
May	NA	NA	NA	NA	NA	NA	NA	NA
June	NA	NA	NA	NA	NA	NA	NA	NA
July	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
August	NA	NA	NA	NA	NA	NA	NA	NA
September	NA	NA	NA	NA	NA	NA	NA	NA
October	NA	NA	NA	NA	NA	NA	NA	NA
November	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
December	NA	NA	NA	NA	NA	NA	NA	NA

SEMIVOLATILES

	Alpha-BHC (mg/L)		3,3-Dichlorobenzidine (mg/L)		Hexachlorobenzene (mg/L)	
Permit limit	0.00001 mg/L daily maximum		0.01 mg/L daily maximum		0.02 mg/L daily maximum	
Month	Avg	Max	Avg	Max	Avg	Max
January	NA	NA	NA	NA	NA	NA
February	< 0.000009	< 0.000009	< 0.0099	< 0.0099	< 0.01	< 0.01
March	NA	NA	NA	NA	NA	NA
April	< 0.000009	< 0.000009	< 0.0099	< 0.0099	< 0.01	< 0.01
May	NA	NA	NA	NA	NA	NA
June	NA	NA	NA	NA	NA	NA
July	< 0.000009	< 0.000009	< 0.0099	< 0.0099	< 0.01	< 0.01
August	NA	NA	NA	NA	NA	NA
September	NA	NA	NA	NA	NA	NA
October	NA	NA	NA	NA	NA	NA
November	< 0.000009	< 0.000009	< 0.0099	< 0.0099	< 0.01	< 0.01
December	NA	NA	NA	NA	NA	NA

NA = Not applicable. No discharge this month.
 No results exceeded the permit limits.

Table G-3C (concluded)
1999 SPDES Results for Outfall 001 (WNSP001)
Organics

SEMIVOLATILES (concluded)

Permit limit	Heptachlor (mg/L)		Tributyl phosphate (mg/L)	
	0.00001 mg/L daily maximum		32 mg/L daily maximum	
Month	Avg	Max	Avg	Max
January	NA	NA	NA	NA
February	< 0.000009	< 0.000009	< 0.01	< 0.01
March	NA	NA	NA	NA
April	< 0.000009	< 0.000009	< 0.01	< 0.01
May	NA	NA	NA	NA
June	NA	NA	NA	NA
July	< 0.000009	< 0.000009	< 0.01	< 0.01
August	NA	NA	NA	NA
September	NA	NA	NA	NA
October	NA	NA	NA	NA
November	< 0.000009	< 0.000009	< 0.01	< 0.01
December	NA	NA	NA	NA

NA = Not applicable. No discharge this month.
 No results exceeded the permit limits.

Table G-4
1999 SPDES Results for Outfall 007 (WNSP007)
Water Quality and Iron

	Ammonia (as NH₃) (mg/L)		BOD₅ (mg/L)		Chlorine Total Residual (mg/L)		Discharge Rate (MGD)		Iron Total (mg/L)	
Permit limit	Monitor		10.0 mg/L daily maximum		0.1 mg/L daily maximum		Monitor		Monitor	
Month	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max
January	< 0.05	< 0.05	< 2.6	3.8	0.02	0.03	0.014	0.025	0.062	0.086
February	< 0.08	0.11	< 2.6	3.4	0.02	0.03	0.012	0.019	< 0.053	0.070
March	< 0.07	0.10	< 2.1	2.4	0.02	0.05	0.014	0.023	0.058	0.067
April	< 0.06	0.08	< 2.2	2.5	0.02	0.04	0.011	0.014	0.057	0.076
May	< 0.05	< 0.05	< 2.0	< 2.0	0.02	0.02	0.009	0.014	< 0.127	0.300
June	< 0.08	0.12	< 2.0	< 2.0	0.02	0.04	0.009	0.012	0.059	0.068
July	0.24	0.45	< 2.0	< 2.0	0.02	0.03	0.010	0.017	< 0.030	< 0.030
August	0.19	0.31	< 2.0	< 2.0	0.02	0.02	0.011	0.019	< 0.030	< 0.030
September	< 0.11	0.14	< 2.0	2.0	0.02	0.03	0.010	0.015	< 0.093	0.147
October	0.23	0.32	< 2.0	< 2.0	0.02	0.03	0.012	0.019	< 0.032	0.035
November	0.25	0.35	< 2.0	< 2.0	0.02	0.03	0.012	0.019	< 0.030	0.031
December	< 0.05	0.06	< 2.0	< 2.0	0.03	0.06	0.013	0.016	< 0.034	0.042

	Nitrite (as N) (mg/L)		Oil & Grease (mg/L)		pH (standard units)		Solids Settleable (mL/L)		Solids Total Suspended (mg/L)	
Permit limit	0.1 mg/L daily maximum		15 mg/L daily maximum		6.5 to 8.5		0.30 mL/L daily maximum		45.0 mg/L daily maximum; 30.0 daily average	
Month	Avg	Max	Avg	Max	Min	Max	Avg	Max	Avg	Max
January	< 0.05	< 0.05	< 5.1	5.4	7.6	8.0	< 0.1	< 0.1	< 3.0	5.0
February	< 0.05	< 0.05	< 5.0	< 5.0	7.6	7.8	< 0.1	< 0.1	< 2.0	< 2.0
March	< 0.05	< 0.05	< 5.0	< 5.0	7.4	7.8	< 0.1	< 0.1	< 2.0	2.0
April	< 0.05	< 0.05	< 5.0	< 5.0	7.5	8.2	< 0.1	< 0.1	< 2.0	2.0
May	< 0.05	< 0.05	< 5.1	5.4	7.6	8.0	< 0.1	< 0.1	< 3.7	7.0
June	< 0.05	< 0.05	< 5.0	< 5.0	7.5	7.8	< 0.1	< 0.1	< 3.0	5.0
July	< 0.05	< 0.05	< 5.2	5.5	7.7	8.0	< 0.1	< 0.1	< 2.0	< 2.0
August	< 0.05	< 0.05	< 5.0	< 5.0	7.7	8.4	< 0.1	< 0.1	< 5.3	12.0
September	< 0.05	< 0.05	< 5.0	< 5.0	7.6	7.8	< 0.1	< 0.1	< 12.0	29.0
October	< 0.05	< 0.05	< 10.0	14.0	8.0	8.1	< 0.1	< 0.1	< 3.3	6.0
November	< 0.05	< 0.05	8.5	9.9	7.9	8.0	< 0.1	< 0.1	5.4	11.0
December	< 0.05	< 0.05	6.3	7.3	7.7	8.0	< 0.1	< 0.1	< 2.0	< 2.0

No results exceeded the permit limits.

Table G-5
1999 SPDES Results for Outfall 008 (WNSP008)
Water Quality

	BOD₅ (mg/L)		Discharge Rate (GPD)		pH (standard units)	
Permit limit	5.0 mg/L daily maximum		Monitor		6.5 to 8.5	
Month	Avg	Max	Avg	Max	Min	Max
<i>January</i>	< 2.0	< 2.0	2520	3810	6.8	7.2
<i>February</i>	< 2.0	< 2.0	2520	3370	7.0	7.4
<i>March</i>	< 2.0	< 2.0	1830	1950	7.0	7.4
<i>April</i>	< 2.0	< 2.0	2070	2130	7.0	7.0
<i>May</i>	< 2.0	< 2.0	1320	1440	7.0	7.0
<i>June</i>	< 2.0	< 2.0	1160	1260	6.7	7.1
<i>July</i>	< 2.0	< 2.0	1030	1190	6.6	7.2
<i>August</i>	< 2.0	< 2.0	1300	1560	6.8	7.3
<i>September</i>	< 2.0	< 2.0	1700	2110	7.1	7.2
<i>October</i>	< 2.0	< 2.0	1500	1720	7.0	7.2
<i>November</i>	< 2.0	< 2.0	2630	3900	7.0	7.1
<i>December</i>	< 2.53	3.6	2320	2930	6.9	7.2

Metals

	Cadmium Total Recoverable (mg/L)		Iron Total (mg/L)		Lead Total Recoverable (mg/L)	
Permit limit	0.002 mg/L daily maximum		Monitor		0.006 mg/L daily maximum	
Month	Avg	Max	Avg	Max	Avg	Max
<i>January</i>	< 0.001	< 0.001	< 0.030	< 0.030	< 0.002	< 0.002
<i>February</i>	< 0.001	< 0.001	< 0.031	0.032	< 0.003	0.004
<i>March</i>	< 0.001	< 0.001	< 0.035	0.043	< 0.002	0.002
<i>April</i>	< 0.001	0.001	< 0.030	< 0.030	< 0.003	0.005
<i>May</i>	< 0.001	< 0.001	< 0.058	0.090	0.004	0.005
<i>June</i>	< 0.001	< 0.001	0.041	0.053	< 0.003	0.004
<i>July</i>	< 0.001	< 0.001	< 0.037	0.050	< 0.002	0.002
<i>August</i>	< 0.001	< 0.001	< 0.030	0.030	< 0.002	0.002
<i>September</i>	< 0.001	< 0.001	< 0.090	0.205	< 0.003	0.004
<i>October</i>	< 0.001	< 0.001	< 0.039	0.057	< 0.002	0.003
<i>November</i>	< 0.001	< 0.001	< 0.124	0.303	< 0.003	0.004
<i>December</i>	< 0.001	< 0.001	< 0.031	0.032	< 0.002	0.002

No results exceeded the permit limits.

Table G-6
1999 SPDES Results for Sums of Outfalls 001, 007, and 008
Water Quality

	Ammonia (as NH₃)** Flow -Weighted Average (mg/L)		BOD₅ (mg/L)		Iron, Total Flow -Weighted Average (mg/L)	
Permit limit	2.1 daily maximum; 1.49 daily average		5.0 mg/L daily average		0.30 mg/L daily average	
Month	Avg	Max	Avg	Max	Avg	Max
<i>January</i>	< 0.05	< 0.05	< 2.6	< 3.6	0.00	—
<i>February</i>	< 0.11	0.21	< 2.0	< 2.0	0.00	—
<i>March</i>	< 0.07	0.10	< 2.1	2.4	0.00	—
<i>April</i>	< 0.05	< 0.05	< 2.0	< 2.0	0.07	—
<i>May</i>	< 0.05	< 0.05	< 2.0	< 2.0	0.00	—
<i>June</i>	< 0.08	0.12	< 2.0	< 2.0	0.00	—
<i>July</i>	0.28	0.45	< 2.0	< 2.0	0.00	—
<i>August</i>	0.16	0.25	< 2.0	< 2.0	0.00	—
<i>September</i>	< 0.09	0.12	< 2.0	< 2.0	0.00	—
<i>October</i>	0.23	0.32	< 2.0	< 2.0	0.00	—
<i>November</i>	0.19	0.27	< 2.2	< 2.8	0.00	—
<i>December</i>	< 0.05	0.06	< 2.1	< 2.2	0.00	—

1999 SPDES Results for Outfall 116
Water Quality

	Total Dissolved Solids (mg/L)	
Permit limit	500 mg/L daily maximum	
Month	Avg	Max
<i>January</i>	NA	NA
<i>February</i>	334	356
<i>March</i>	NA	NA
<i>April</i>	390	411
<i>May</i>	NA	NA
<i>June</i>	NA	NA
<i>July</i>	445	487
<i>August</i>	NA	NA
<i>September</i>	NA	NA
<i>October</i>	NA	NA
<i>November</i>	373	405
<i>December</i>	NA	NA

** = Sum of outfalls 001 and 007 only.

NA = No discharge.

No results exceeded the permit limits.

Table G-7
1999 Annual/Semiannual SPDES Results for Outfall 001

Water Quality (Measured Annually):

Chloroform (mg/L)	
Permit limit	0.3 mg/L daily maximum
Monitoring period 02/01/99 - 01/31/00	Maximum measured < 0.005

Metals (Measured Annually or Semiannually):

	Antimony Total (mg/L)	Barium Total (mg/L)	Titanium Total (mg/L)
Permit limit	1.0 mg/L daily maximum	0.5 mg/L daily maximum	0.65 mg/L daily maximum
Monitoring period 02/01/99 - 01/31/00	Maximum measured < 0.06	Maximum measured < 0.05	Maximum measured NA
02/01/99 - 07/31/99	NA	NA	< 0.05
08/01/99 - 01/31/00	NA	NA	< 0.05

Organics (Measured Semiannually):

	bis (2-ethylhexyl) phthalate (mg/L)	4-Dodecene (mg/L)
Permit limit	1.6 mg/L daily maximum	0.6 mg/L daily maximum
Monitoring period 02/01/99 - 07/31/99	Maximum measured < 0.01	Maximum measured < 0.06
08/01/99 - 01/31/00	< 0.01	< 0.06

NA - Not analyzed during this monitoring period.
No results exceeded the permit limits.

Table G-8
1999 Annual SPDES Results for Outfalls 007 and 008

Outfall 007 Water Quality (Measured Annually):

Chloroform (mg/L)	
Permit limit	0.20 mg/L daily maximum
Monitoring period 02/01/99 - 01/31/00	Maximum measured < 0.005

Outfall 008 Water Quality (Measured Annually):

	Arsenic Total (mg/L)	Chromium Total (mg/L)	Silver Total (mg/L)	Zinc Total (mg/L)
Permit limit	0.17 mg/L daily maximum	0.13 mg/L daily maximum	0.008 mg/L daily maximum	0.100 mg/L daily maximum
Monitoring period 02/01/99 - 01/31/00	Max < 0.003	Max < 0.010	Max < 0.003	Max 0.199*

* Value exceeded the action level for total zinc.